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1 General information

1.1 Introduction

This plugin allows Hollywood scripts to open archives using the XAD system. The XAD system is a toolkit designed for handling various file and disk archiver formats. It consists of a master library and a number of XAD clients for handling different file and disk archiver formats. By default, the XAD system already supports many common archiver formats like ZIP, LhA, LZX, CAB, bzip2, TAR, and RAR, which makes it a powerful tool for people that have to deal with compressed data a lot.

The XAD system has its origins on the Amiga platform for which it was originally developed by Dirk Stoecker in the 1990s. That's why all versions of xad.hwp for AmigaOS and compatibles still use the xadmaster.library provided by the host system. Both AmigaOS 4 and MorphOS come with xadmaster.library installed. For AmigaOS 3 and AROS xadmaster.library is available as third-party software. On all other platforms, xad.hwp uses an open-source version of the XAD system.

The XAD plugin uses Hollywood 6.0's new file and directory adapter plugin interfaces which allow you to iterate through file archives supported by the XAD system as if they were normal directories. Files within archives supported by the XAD system can also be accessed as if the archive was a normal directory. It is not necessary to unpack a file stored in an archive to a temporary file before it can be opened. Hollywood 6.0's file adapter plugin interface allows direct streaming from the archive into the respective file handler.

Additionally, xad.hwp offers a range of functions to deal with archives supported by the XAD system for people needing fine-tuned control over the XAD system. These functions allow you to conveniently iterate over all files and directories in an archive, read file attributes like date, protection bits, compression details, etc. and extract files to an external or virtual file.

1.2 Terms and conditions

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xad.hwp for AmigaOS 3, AmigaOS 4, AROS and MorphOS may be freely distributed as long as the following three conditions are met:

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- 2. It is not allowed to sell this plugin.
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This software uses xadmaster.library by Dirk Stoecker. See Section A.1 [xadmaster.library license], page 17, for details.

xad.hwp for non-Amiga platforms uses the XAD RAR client which was written by Chris Young <chris@unsatisfactorysoftware.co.uk> and Stephan Matzke <stephan.matzke.adev@gmx.de>. This client is built on a modified version of RAR_Extractor by Shay Green which is based on the UnRAR source code by Alexander L. Roshal.

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1.3 Requirements

- minimum: Hollywood 6.0 or better
- recommended: Hollywood 7.0 or better is recommended for Unicode support

1.4 Installation

Installing xad.hwp is straightforward and simple: Just copy the file xad.hwp for the platform of your choice to Hollywood's plugins directory. On all systems except on AmigaOS and compatibles, plugins must be stored in a directory named Plugins that is in the same directory as the main Hollywood program. On AmigaOS and compatible systems, plugins must be installed to LIBS:Hollywood instead. On Mac OS X, the Plugins directory must be inside the Resources directory of the application bundle, i.e. inside the HollywoodInterpreter.app/Contents/Resources directory. Note that

HollywoodInterpreter.app is stored inside the Hollywood.app application bundle itself, namely in Hollywood.app/Contents/Resources.

On Windows you should also copy the file xad.chm to the Docs directory of your Hollywood installation. Then you will be able to get online help by pressing F1 when the cursor is over a xad.hwp function in the Hollywood IDE.

On Linux and Mac OS copy the xap directory that is inside the Docs directory of xad.hwp's distribution archive to the Docs directory of your Hollywood installation. Note that on Mac OS the Docs directory is within the Hollywood.app application bundle, i.e. in Hollywood.app/Contents/Resources/Docs.

2 About xad.hwp

2.1 Credits

xad.hwp was written by Andreas Falkenhahn. Work on this project was started in early 2014 as a proof-of-concept demonstration of Hollywood 6.0's powerful new file and directory adapter plugin interfaces which allow plugins to hook into Hollywood's file and directory handlers. xad.hwp makes use of this feature by making Hollywood think that archives supported by the XAD system are just directories so that it is possible to iterate through them using Hollywood's normal directory functions or open files within archives without extracting them first.

If you want to contact me, you can either send an e-mail to andreas@airsoftsoftwair. de or use the contact form on http://www.hollywood-mal.com.

2.2 Frequently asked questions

This section covers some frequently asked questions. Please read them first before asking on the mailing list or forum because your problem might have been covered here.

Q: Where can I ask for help?

A: There's a lively forum at http://forums.hollywood-mal.com and we also have a mailing list which you can access at airsoft_hollywood@yahoogroups.com. Visit http://www.hollywood-mal.com for information on how to join the mailing list.

Q: I have found a bug.

A: Please post about it in the dedicated sections of the forum or the mailing list.

2.3 Known issues

Here is a list of things that xad.hwp doesn't support yet or that may be confusing in some way:

- tbd

2.4 Future

Here are some things that are on my to do list:

- tbd

Don't hesitate to contact me if xad.hwp lacks a certain feature that is important for your project.

2.5 History

Please see the file history.txt for a complete change log of xad.hwp.

3 Usage

3.1 Activating the plugin

There are two ways of using this plugin: You can either activate the plugin globally by setting the InstallAdapter tag to True when @REQUIRE-ing it. To do this, simply put the following preprocessor command at the top of your script:

```
@REQUIRE "xad", {InstallAdapter = True}
```

If you activate the plugin in this way, it will become globally available and all ensuing commands that deal with files will support the opening of files from XAD archive sources. For example, you could do something like this then:

```
LoadBrush(1, "test.rar/testpicture.jpg")
```

If you only need to open very few files from XAD archive sources, you can also choose to not activate the plugin globally by omitting the InstallAdapter tag on @REQUIRE and simply use the Adapter tag offered by most Hollywood commands to tell the respective Hollywood command to open the file using the xad.hwp plugin. Here is an example:

```
LoadBrush(1, "test.rar/testpicture.jpg", {Adapter = "xad"})
```

By using the Adapter tag, LoadBrush() is told to open the specified file using the specified adapter, which is "xad" in our case. Thus, the Adapter tag allows you to use this plugin even without having installed a global file adapter for it first.

The same is true for Hollywood functions dealing with directories. Once the XAD plugin has been activated, it is possible to do things like the following:

```
OpenDirectory(1, "test.rar")
```

You could then iterate over all files and directories in test.rar. If you haven't activated a global adapter for xad.hwp, then just use the Adapter like above, e.g.

```
OpenDirectory(1, "test.rar", {Adapter = "xad"})
```

See the next chapter for more details on treating archives supported by the XAD system as directories.

3.2 Archives as directories

When setting the InstallAdapter tag to True, the XAD plugin hooks into Hollywood's directory handler to make Hollywood believe that archives supported by the XAD system are normal directories. This allows you to iterate over all files and directories inside an archive using normal functions from Hollywood's DOS library.

For example, to iterate over all files and directory inside a file named test.rar you could use the following code:

```
OpenDirectory(1, "test.rar")
Local e = NextDirectoryEntry(1)
While e <> Nil
    DebugPrint(e.name)
    e = NextDirectoryEntry(1)
Wend
CloseDirectory(1)
```

If you don't want to start from the root directory inside test.rar, you can also conveniently start from a subdirectory by just pretend that test.rar is a directory, e.g. to access a subdirectory named files inside test.rar just do the following:

```
OpenDirectory(1, "test.rar/files")
```

Finally, it is also possible to recursively iterate through all files and directories inside an archive. Here is a function which does that:

To dump the contents of an archive, just call this function like that:

```
p_DumpArchive("test.rar", 0)
```

It will then print a nice tree of the archive's contents.

3.3 Extracting files

Since xad.hwp can hook into Hollywood's file handler, extracting files is just a matter of using Hollywood's CopyFile() function on the file you wish to extract. For example, to extract a file named testpicture.jpg from test.rar, just use the following line:

```
CopyFile("test.rar/testpicture.jpg", "outputdir")
```

Since CopyFile() can also copy whole directories including all subdirectories and because xad.hwp hooks into Hollywood's directory handler as well, it is even possible to extract a whole archive using CopyFile(), like this:

```
CopyFile("test.rar", "outputdir")
```

This, however, will be pretty slow because xad.hwp will open and close the RAR archive for every single file that needs to be extracted which is of course a performance killer. That's why xad.hwp also offers a dedicated function to extract files for fine-tuned control over archives. See Section 4.2 [xad.ExtractFile], page 11, for details.

3.4 Archive basics

Archives supported by the XAD system are just a collection of files that are stored at indices ranging from 0 to the number of entries in the archive minus 1. It is not necessary to store directories as individual entries. Instead, they can also be stored as part of a filename, e.g. if a file is stored as a/b/c/test.txt in the archive, then the directories a, b, and c are

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implicitly declared as existing even though they don't have their individual entries in the archive but just exist as part of a file. You have to be prepared to deal with that if you manually parse archives using the functions provided by this plugin.

3.5 Linking files

Keep in mind that all files declared in the preprocessor commands are linked automatically into your applet or executable when Hollywood is in compile mode. Thus, if you do something like the following, not only testpicture.jpg but the whole RAR archive test.rar will be linked to your applet or executable:

```
@BRUSH 1, "test.rar/testpicture.jpg"
```

If you don't want that, you can set the optional Link to False. If Link is set to False, Hollywood won't link the specified file to your applet or executable. This means, however, that you have to distribute test.rar with your applet or executable so that the data can be loaded from it. Here's how to disable linking:

```
@BRUSH 1, "test.rar/testpicture.jpg", {Link = False}
```

When done like this, Hollywood will never link the file into your applet or executable. Instead, it will always be loaded from the specified file.

4 Function reference

4.1 xad.CloseArchive

NAME

xad.CloseArchive - close xad archive

SYNOPSIS

xad.CloseArchive(id)

FUNCTION

This function closes the specified xad archive.

INPUTS

id

identifier of the xad archive to be closed

4.2 xad.ExtractFile

NAME

xad.ExtractFile - extract file from xad archive

SYNOPSIS

xad.ExtractFile(id, idx, dst\$[, table])

FUNCTION

This function can be used to extract the file at the index idx inside the xad archive specified by id to the external file specified by dst\$. If dst\$ already exists, it will be overwritten. An optional table argument allows you to specify further options for the operation.

The following tags are currently recognized in the optional table argument:

Password:

If the file you wish to extract is protected by a password, you have to specify this password here. If you don't specify this tag, the default password set using xad.SetDefaultPassword() is used.

Callback:

This tag allows you to pass a function that should be called from time to time. This can be useful if you'd like to show a status bar or something while the xad file is being extracted. The function will receive a table as its sole argument. The table will have the following fields initialized:

Action: Initialized to "ExtractFile".

ID: Contains the identifier of the xad archive.

Progress:

Contains a value between 0 and 100 indicating how much work has already been done.

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UserData:

Contains the value you passed in the UserData argument (see below).

You can also pass user data that should be forwarded to your callback using the tag below.

UserData:

This tag can be set to arbitrary data that should be passed to the callback you passed in the Callback tag. If you specify this tag without the Callback tag, it is simply ignored.

INPUTS

id identifier of the xad archive to use

idx index of file to extract
dst\$ desired destination file

table optional: table containing further parameters

4.3 xad.GetFileAttributes

NAME

xad.GetFileAttributes – get file attributes

SYNOPSIS

t = xad.GetFileAttributes(id, idx)

FUNCTION

This function returns attributes of the file at the index specified by idx inside the xad archive specified by id. xad.GetFileAttributes() returns a table with the following information about the file:

Type: This will be #DOSTYPE_FILE if the entry is a file or #DOSTYPE_DIRECTORY if

the entry is a directory.

Name: This field will contain a string with the full path to this file or directory.

Size: The size of the file in bytes or 0 for directories.

CompressedSize:

The compressed size of the file in bytes or 0 for directories.

Encryption:

This will be set to True if the file is stored with encryption, False otherwise.

Flags: This field will receive a combination of protection flags of the file or direc-

tory. See the documentation of the GetFileAttributes() function in your

Hollywood manual for details on possible values of this field.

Time: The datestamp for the file. This will be in the standard Hollywood date

format of dd-mmm-yyyy hh:mm:ss.

INPUTS

id identifier of the xad archive to use

idx index of the file to query

RESULTS

t table containing file attributes

4.4 xad.GetFileAtIndex

NAME

xad.GetFileAtIndex – get name of file by index

SYNOPSIS

name\$ = xad.GetFileAtIndex(id, idx)

FUNCTION

This function returns the name of the file at index idx in the xad archive specified by id.

To find out the number of files in a xad archive, you can query #XADATTRNUMENTRIES with Hollywood's GetAttribute() function. See Section 4.5 [xad.GetObjectType], page 13, for details.

INPUTS

id identifier of the xad archive to use

idx index to query (in the range of 0 to number of entries minus 1)

RESULTS

name\$ name of entry at index

4.5 xad.GetObjectType

NAME

xad.GetObjectType - get xad archive object type

SYNOPSIS

type = xad.GetObjectType()

FUNCTION

This function returns the object type used by xad archives opened using the xad.OpenArchive() function. You can then use this object type with functions from Hollywood's object library such as GetAttribute(), SetObjectData(), GetObjectData(), etc.

In particular, Hollywood's GetAttribute() function may be used to query certain properties of xad archives opened using xad.OpenArchive(). The following attributes are currently supported by GetAttribute() for xad archives:

#XADATTRNUMENTRIES:

Returns the number of entries in the xad archive.

#XADATTRTYPE:

Returns a string describing the archiver name used by the current xad archive, e.g. "RAR" or "LhA".

INPUTS

none

RESULTS

type internal xad archive type for use with Hollywood's object library

EXAMPLE

```
xad.OpenArchive(1, "test.rar")
XAD_ARCHIVE = xad.GetObjectType()
numentries = GetAttribute(XAD_ARCHIVE, 1, #XADATTRNUMENTRIES)
type$ = GetAttribute(XAD_ARCHIVE, 1, #XADATTRTYPE)
```

The code above opens test.rar and queries the number of entries in the archive and its type via GetAttribute().

4.6 xad.LocateFile

NAME

xad.LocateFile - find file in xad archive

SYNOPSIS

```
idx = xad.LocateFile(id, name$[, table])
```

FUNCTION

This function searches for the file specified by name\$ inside the xad archive specified by id and returns its index if it is found, otherwise -1 is returned.

The optional table argument can be used to specify further options. The following table tags are currently recognized:

NoCase: If this tag is set to True, xad.LocateFile() won't distinguish between upper

and lower case characters. This makes the search slower. Defaults to False.

NoDir: If this tag is set to True, xad.LocateFile() will just match the file name

so it will also trigger if the file is in a subdirectory in the archive. Defaults

to False.

INPUTS

id identifier of the xad archive to use

name\$ name of the file to locate

table optional: table argument containing further options (see above)

RESULTS

idx index of file inside xad archive or -1 if it couldn't be found

4.7 xad.OpenArchive

NAME

xad.OpenArchive – open a xad archive

SYNOPSIS

[id] = xad.OpenArchive(id, filename\$)

FUNCTION

This function attempts to open the xad archive specified by filename\$ and assigns id to it. If you pass Nil in id, xad.OpenArchive() will automatically choose a vacant identifier and return it. If the file does not exist, this function will fail.

Although xad.hwp will automatically close all open xad archives when it quits, it is strongly advised that you close an open xad archive when you are done with it using the xad.CloseArchive() function because otherwise you are wasting resources.

Note that xad.OpenArchive() will create a standard Hollywood object which can also be used with functions from Hollywood's object library such as GetAttribute(), SetObjectData(), GetObjectData(), etc. See Section 4.5 [xad.GetObjectType], page 13, for details.

INPUTS

id identifier of the file or Nil for auto id selection

filename\$

name of the file to open

RESULTS

optional: identifier of the file; will only be returned when you pass Nil as argument 1 (see above)

4.8 xad.SetDefaultPassword

NAME

xad.SetDefaultPassword – set default password

SYNOPSIS

xad.SetDefaultPassword(pwd\$)

FUNCTION

This function can be used to set a default password that is used to decrypt files if no other password is provided. If you pass an empty string in pwd\$, the default password is unset.

The default password is used by xad.ExtractFile() if no other password is explicitly specified. It is also used by normal Hollywood functions if the global adapter has been enabled for xad.hwp by setting the InstallAdapter tag to True.

INPUTS

pwd\$ new default password or empty string to unset the default password

Appendix A Licenses

A.1 xadmaster.library license

The xadmaster.library is Shareware with very special conditions. There are no usage restrictions (means this is no Crippleware!), and xadmaster.library use can be implemented into programs without any restrictions. Only the end users have to pay shareware fee, if using xadmaster.library. There are 3 forms of payment to get a registered user:

- Send 20 EUR or US \$20 to my snail mail address or use any other more secure transfer system.
- Make detailed bug reports about 3 currently unknown bugs. I decide whether a bug report is counted or not. Mainly this depends on two facts: was the bug already reported / does the description help me to find the bug
- You make an own external client and send me the source and the client for inclusion in next release. Some more are good as well!

For programmers using xadmaster.library in own applications (f.e. in virus scanners):

- It would be fine, if you would tell me suggestions or bugs, as implementing xadmaster.library use may show you some problems.
- You must state above conditions in your distribution, at a place, where users can read it.
- And please do not forget: Most time you are users as well, so think about above conditions.

NOTE: This conditions only cover the xadmaster.library! External clients may have different legal state. For example LZX and Zoom both are Freeware. So expect clients to have any legal state. You need to check this for every client. Normally the version string in the client should tell you what type it is.

A.2 LGPL license

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If the Library as you received it specifies that a proxy can decide whether future versions of the GNU Lesser General Public License shall apply, that proxy's public statement of acceptance of any version is permanent authorization for you to choose that version for the Library.

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